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Replacement Sheet

GCGCGTCCTGTATCCAATCTGTGGAAAAATCGAGAGCACTCCTTCTCCAAAGACCCAAGGCACCCGCTGG
CCATGGCAGGCAGCATCTACCGGAGACCAGTGGTGTACACGATGGTGGTCTGCACAAAGGTGCATGGTTC
TTGGTCTGCAGTGGTGCCCTGGTGAATGAACGGACTGTGGTTGTGGCTGCCCCACTGTGTGACTGAGCTGG
GGAAGGCCACCATCATCAAGACAGCAGACCTCAAGGTTGTCTTGGGAAAATTCTACAGGGACGATGATCG
GGATGAGAAGAGCATCCAGAATTTACGGGTTTCTGCTATCATTCTGCTCCCTGACCTACAAAACAAAAAA
AAAAAAAAAAAAAAAAAGATAC (SEQ ID NO:1)

FIGURE 1



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Replacement Sheet

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

GCGCGTCCTGTATCCAA [TCTGTGGAAAAATCGAGAGCACTCCTTCTCCAAAGACCCAAGG
CACCCGCTGGCCATGGCAGGCAGCATCTACCGGAGACCAGTGGTGTACACGATGGTGGTC
TGCACAAAGGTGCATGGTTCTTGGTCTGCAGTGGTGGCCTGGTGAATGAACGGACTGTGG]
TTGTGGCTGCCCACTGTGTGACTGAGCTGGGGAAGGCCACCATCATCAAG [ACAGCAGACC
TCAAGGTTGTCTTGGGAAAAATTCTACAGGGACGATGATCGGGATGAGAAGAGCATCCAGA
ATTTACGG] GTTTCTGCTATCATTCTGCTCCCTGACCTACAAAACAAAAAAAAAAAAAAAAA
AAAAGATAC
(SEQ ID NO:1)

FIGURE 2A



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Replacement Sheet

Gene Sequence Structure

181 bp

Sequence Deleted

230 bp

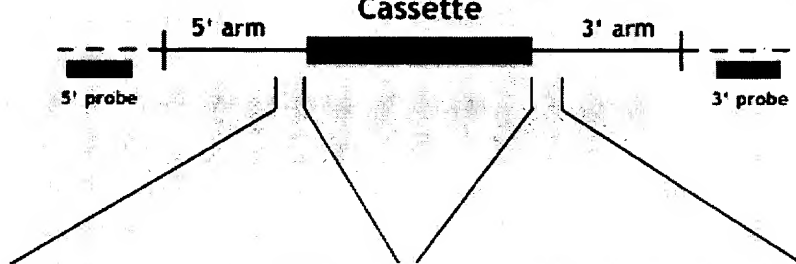
*

Size of EST: 369 bp

Targeting Vector*
(genomic sequence)

LacZ-Neo
Cassette

Arm Length:
5': 1.4 kb
3': 6 kb



— Targeting Vector
- - - Endogenous Locus

* Not drawn to scale

5' >GACTTGATCCTATCAAACCTGA
CGTTTTCTCCACAGTCTGTGGAAA
AATCGAGAGCACTCCTTCCCCAAA
GACCCAAGGCACCGCTGGCCATG
GCAGGCAACCATCTACCGGAGGAC
CAGTGGTGTACACGATGGTGGTCT
GCACAAAGGTGCATGGTTCTTGGT
CTGCAGTGGTGCCCTGGTGAATGA
ACGGACTGTGG<3'
(SEQ ID NO:2)

5' >ACAGCAGACCTCAAGGTTGTC
TTGGGAAAATTCTACAGGGACGAT
GATCGGGATGAGAAGAGCATCCAG
AATTTACGGGTGAGGATGGGCTCT
CTTGGAAACGGGAGCTTTGACTTA
ACCAGTTATGAGAGCAGAAGAACA
GGGCCTAGTGTGTCAGTATACAGC
CCTATGCCTGATATGTGACAGGGC
CTCAGATTTTC<3'
(SEQ ID NO:3)

FIGURE 2B